

artdaq Utilities - Bug #22089

DAQInterface should allow for messagefacility overrides even if artdaq_mfextensions isn't available

03/07/2019 03:45 PM - John Freeman

Status:	Reviewed	Start date:	03/07/2019
Priority:	Normal	Due date:	
Assignee:	John Freeman	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
Experiment:	-	Co-Assignees:	Eric Flumerfelt
Description Right now, both under pmt and direct process management, whether or not users can override/modify the default messagefacility FHiCL generated by artdaq is dependent on whether or not artdaq sees that artdaq_mfextensions is available when the DAQ setup script is sourced. However, even if artdaq_mfextensions isn't available (i.e., MsgViewer isn't in use), users may still want to perform overrides- e.g., limiting the rate of identical messages. The logic in DAQInterface should be altered so this is still possible even without artdaq_mfextensions.			

Associated revisions

Revision 49581718 - 03/08/2019 03:52 PM - John Freeman

JCF: satisfying Issue #22089, make sure it's possible to modify MessageFacility via FHiCL even without artdaq_mfextensions

Previously, it was the case that only if your DAQ setup script made artdaq_mfextensions available would the MessageFacility modifications in MessageFacility.fcl get passed to the artdaq processes. Now, this happens regardless of whether artdaq_mfextensions is available; the difference between the two cases is that if artdaq_mfextensions isn't available, DAQInterface will replace the udp destinations table with a comment saying "udp table for MsgViewer not used since artdaq_mfextensions not available"

History

#1 - 03/08/2019 04:04 PM - John Freeman

- % Done changed from 0 to 100
- Status changed from New to Resolved

With commit 49581718de7138a1c66b80c181873fd90c58fd7b available on the feature/issue22089_support_no_mfextensions branch, edits to MessageFacility.fcl in the DAQInterface working directory (or, if the DAQINTERFACE_MESSAGEFACILITY_FHICL environment is set by someone, whatever file that variable points to) will make it to the artdaq processes' MessageFacility configuration regardless of whether the DAQ setup script makes artdaq_mfextensions available. Be aware that if artdaq_mfextensions isn't available, then the udp destinations table is automatically deactivated for the run, but that no other defenses exist against artdaq_mfextensions-reliant FHiCL code.

#2 - 03/21/2019 09:13 AM - Eric Flumerfelt

Should there be an option to DAQInterface if you want to use an artdaq_mfextensions destination, but don't want to start mfviewer?

#3 - 03/21/2019 02:44 PM - John Freeman

That feature's already available via the use_messageviewer option in the settings file (https://cdcv.sfnal.gov/redmine/projects/artdaq-utilities/wiki/The_settings_file_reference)

#4 - 10/23/2019 10:59 AM - Eric Flumerfelt

- Status changed from Resolved to Reviewed
- Co-Assignees Eric Flumerfelt added

Code reviewed and differential testing shows resolution of issue. Merging into develop.